

Title (en)
OPTICAL MODULE AND OPTICAL SYSTEM

Title (de)
OPTISCHES MODUL UND OPTISCHES SYSTEM

Title (fr)
MODULE OPTIQUE ET SYSTEME OPTIQUE

Publication
EP 1665392 A1 20060607 (DE)

Application
EP 04787186 A 20040922

Priority
• EP 2004052266 W 20040922
• DE 10344771 A 20030926

Abstract (en)
[origin: WO2005031879A1] The invention relates to an optical module comprising: a circuit support (10); a cased semiconductor element (12) placed on the circuit support (10), and; a lens unit (14; 16, 18, 20; 21) for projecting electromagnetic radiation onto the semiconductor element (12). The lens unit preferably comprises a lens arrangement consisting of, for example, three lenses (16, 18, 20) and of a diaphragm (21). The lenses (16, 18, 20), optionally together with the diaphragm (21), are aligned in a well-defined manner due to their geometric design so that no additional optical adjustment is necessary. According to the invention, the lenses (16, 18, 20; 21) are held in a type of lens holder (14) that is an integral component of the case (13) of the semiconductor element (12).

IPC 1-7
H01L 31/0232

IPC 8 full level
H01L 31/0232 (2006.01)

CPC (source: EP US)
H01L 31/02325 (2013.01 - EP US); **H04N 23/57** (2023.01 - EP US)

Citation (search report)
See references of WO 2005031879A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 2005031879 A1 20050407; EP 1665392 A1 20060607; US 2006239632 A1 20061026; US 7570439 B2 20090804

DOCDB simple family (application)
EP 2004052266 W 20040922; EP 04787186 A 20040922; US 57354006 A 20060424